

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) Device for extraction of samples of an aqueous solution in a substratum , comprising a probe including a pipe of inert material, a ~~pyrometric~~ capsule of porous porcelain with an end of lesser diameter than another end to which is attachable the pipe of inert material, and a rubber cap with drilled holes hermetically sealing the pipe, an adapter tube being fitted into one of the holes and being connectable to a vacuum pump, and a ~~suction~~ capillary suction tube that is placeable inside the probe being fitted into another of the holes.

2. (Cancelled)

3. (Currently amended) ~~Use of Method of using~~ a device ~~for extracting samples of an aqueous solution in a substratum~~ according to Claim 1, ~~comprising employing the probe for the purpose of~~ using the probe to extract samples of an aqueous solution for studying the composition of different chemicals, evolution and degradation of organic compounds including chelates and inorganic

compounds in their different chemical forms, and discovering evolution and availability of fertilizing nutrients over an entire soil profile.

4. (Currently amended) ~~Use of~~ Method of using a device for extracting samples of an aqueous substrate solution according to Claim 1, comprising ~~employing the probe for the purpose of~~ using the probe to extract samples for controlling polluting effluents, including nitrates, nitrites, phytosanitary compounds, chemical evolution of inorganic compounds, organic compounds including, chelates and pesticides, and aquifers.

5. (Currently amended) ~~Use of~~ Method of using a device according to Claim 1, comprising ~~employing~~ using the probe for ~~the purpose of~~ decanting of at least one of solids and liquids in ponds, and thereby controlling residue.

6. (Currently amended) Device for extraction and sampling from an aqueous solution of substrate, comprising a probe consisting of a ~~pyrometry~~ capsule of porous porcelain fitted with an end zone of smaller diameter to which a tube of inert material is attached, the end of which is sealed hermetically with a rubber cap adaptable for connection to a vacuum pump and through which a suction capillary is introducible into the probe interior.